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AP	PLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/718,491	11/19/2003	Kai Liu	UC03-100-2	8445
	8156 7590 01/27/2006			EXAMINER	
	JOHN P. O'BANION			LANGEL, WAYNE A	
		RITCHEY LLP L MALL SUITE 1550		ART UNIT	PAPER NUMBER
	SACRAMEN	ΓO, CA 95814		1754	
				DATE MAILED: 01/27/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summers	10/718,491	LIU ET AL.					
Office Action Summary	Examiner	Art Unit					
	Wayne Langel	1754					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	Responsive to communication(s) filed on						
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-53 is/are pending in the application.	☑ Claim(s) <u>1-53</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	☐ Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 -53</u> is/are rejected.	· · 						
· _	· _ · · · · · · · · · · · · · · · · · ·						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>19 November 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau		. d					
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate Patent Application (PTO-152)					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5-9-5-5-4-04,	6) Other:	αιστι Αγγικαμοτί (Ε. ΕΟ-ΤΟΣ)					

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pronin et al (the article entitled "Electronic and optical properties of LiBC"). Pronin et al disclose in the second column on page 1 that LiBC was synthesized from the elements at 770 K with subsequent annealing at 1770 K in sealed niobium ampoules with open molybdenum crucibles inside. The difference between the process of Pronin et al, and that recited in claim 1, is that Pronin et al do not disclose that the heating should be conducted within an inert gas atmosphere. It would be prima facie obvious to modify the process of Pronin et al by carrying out the heating in an inert gas atmosphere, since it is well-known that it is desirable to carry out chemical reactions in an inert atmosphere to prevent contamination of the reaction products, and one would be motivated to form a LiBC of high purity in the process of Pronin et al to maintain the superconductive properties of the LiBC.

Claims 1-53 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is indefinite as to what would constitute a "suitable ratio", a "predetermined ratio", a "similar crystal structure", "sufficient heating", a "sufficient temperature" or a "sufficient period of time".

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The following is a statement of reasons for the indication of allowable subject matter: Pronin et al (the article entitled "Electronic and optical properties of LiBC") discloses that LiBC was synthesized from the elements at 770 K in sealed niobium ampoules. However there is no teaching, disclosure or suggestion in Pronin et al to carry out the heating by arc-melting a pellet of uniformly-mixed elemental lithium, boron, and graphite sufficient to trigger a self-propagating reaction, or to heat uniformly mixed elemental lithium, boron and graphite in a tantalum ampoule. Nor would there be any motivation from the prior art to do so.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne Langel whose telephone number is 571-272-1353. The examiner can normally be reached on Mondays to Fridays from 8 to 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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